

Tanaka

Parts Catalog



String Trimmer

Model TBC-2800

03-01-95

FIGURE 1

POWERHEAD ASSEMBLY

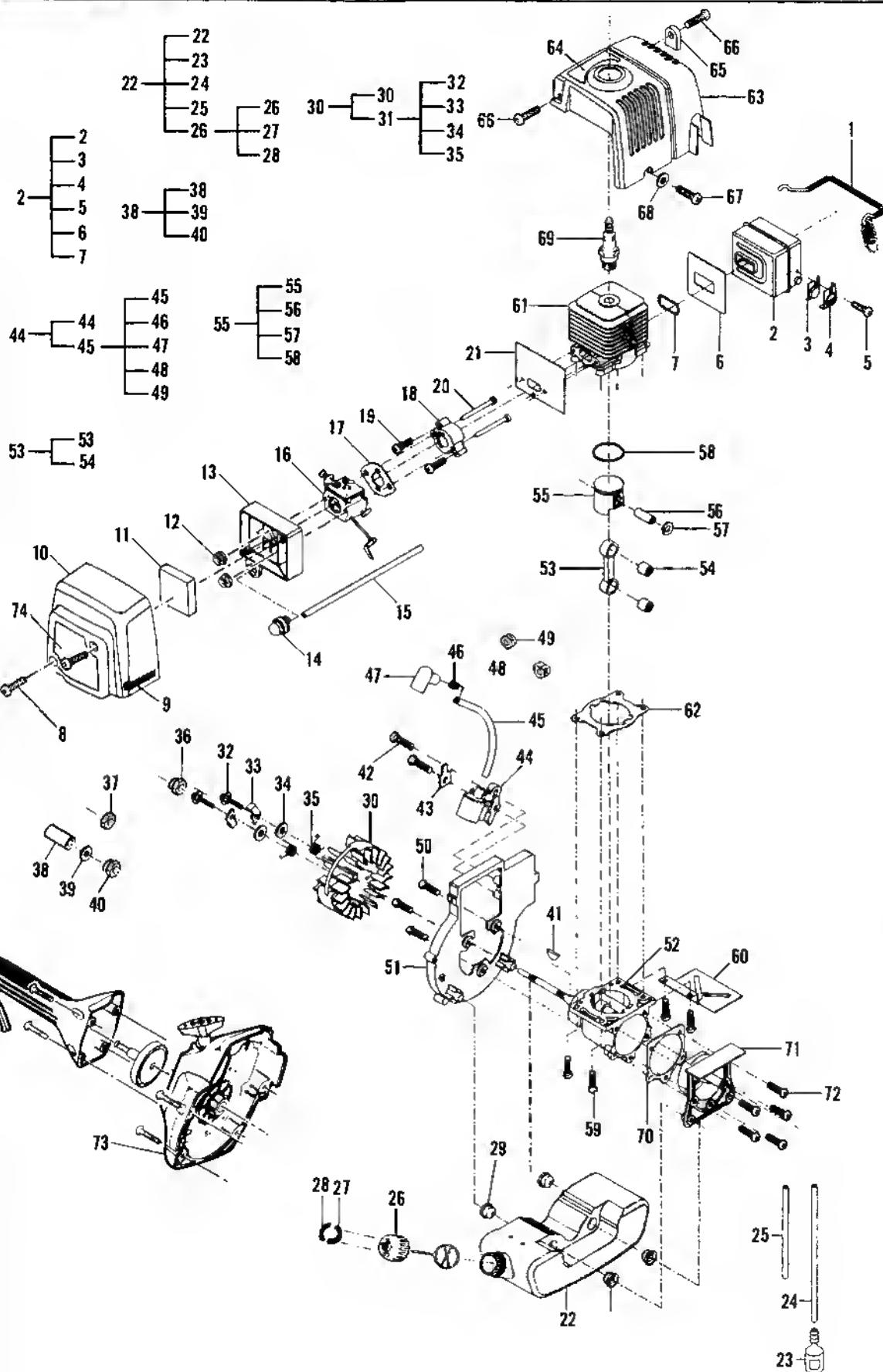


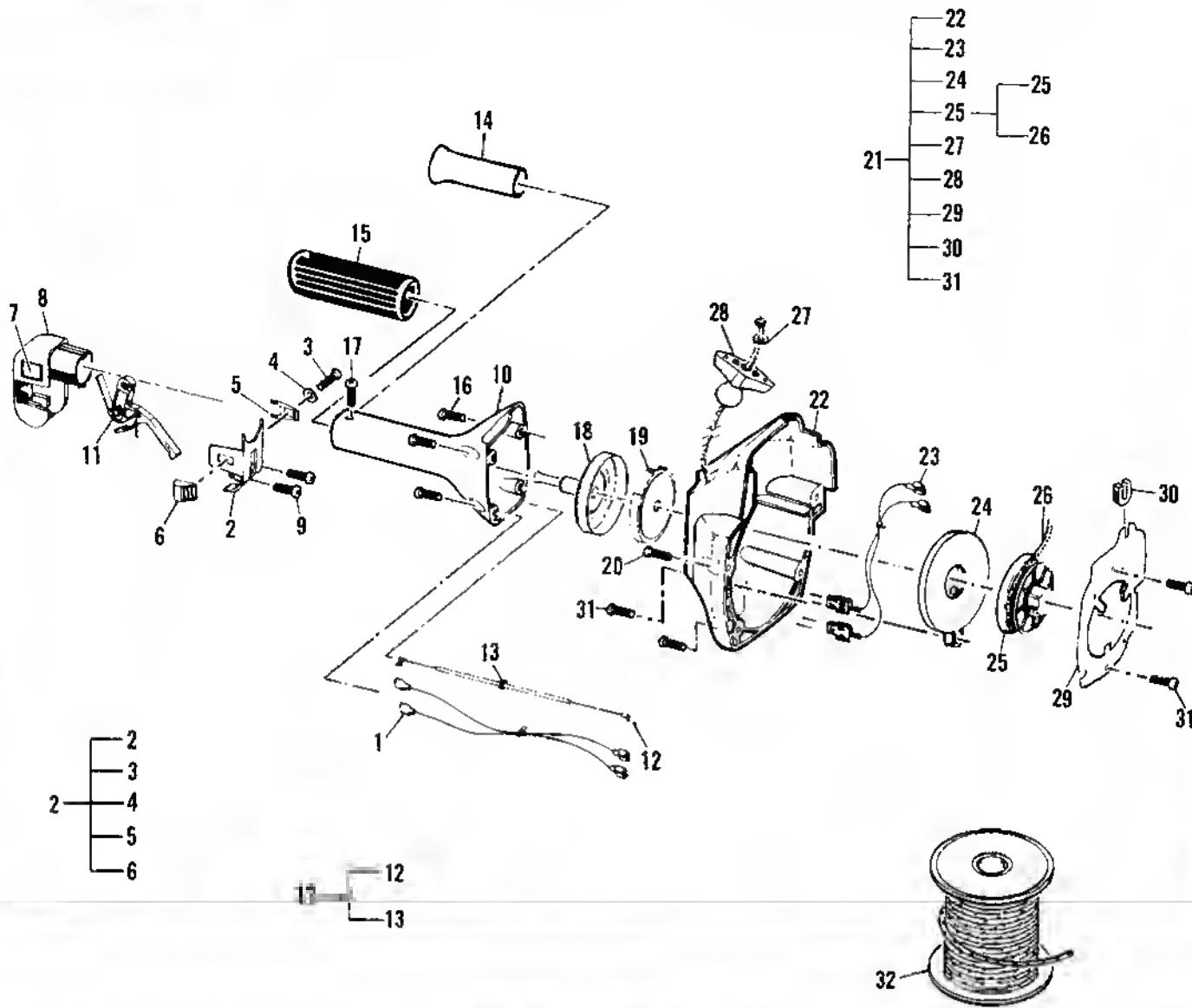
FIGURE 1

POWERHEAD ASSEMBLY

| ITEM NO. | STK. CODE | PART NUMBER | DESCRIPTION | UNITS PER ASY. |
|----------|-----------|-------------|-----------------------------------|----------------|
| 1 | A | 224044 | Spring, Muffler | 1 |
| 2 | A | 300628 | Kit, Muffler | 1 |
| 3 | A | 224040 | . Screen, Spark Arrestor | 1 |
| 4 | B | 322032 | . Cover, Spark Arrestor | 1 |
| 5 | B | 111072 | . Screw, 8-18 x .31 PN HD TORX | 1 |
| 6 | A | 224228 | . Gasket, Muffler | 1 |
| 7 | A | 224922 | . Gasket, Exhaust Port | 1 |
| 8 | A | 111055 | Screw, 10-14 x .625 Plastite | 2 |
| 9 | B | 322478 | Label, Choke(Horizontal) | 1 |
| 10 | A | 224236 | Cover, Air Cleaner-Large(Blk) | 1 |
| 11 | A | 224239 | Filter, Air | 1 |
| 12 | A | 111058 | Nut, 10-24 Flange / Hex | 2 |
| 13 | A | 224238 | Box, Air (Blk) | 1 |
| 14 | A | 224242-01 | Primer, Remote | 1 |
| 15 | A | 225163 | Hose, Fuel Return | 1 |
| 16 | | FIGURE 3 | CARBURETOR W/CHOKE | 1 |
| 17 | A | 218933 | Gasket, Carburetor | 1 |
| 18 | A | 224041 | Manifold, Carburetor | 1 |
| 19 | A | 111053 | Screw, 10-24 x .68 | 2 |
| 20 | B | 111057 | Screw, 10-24 SPL | 2 |
| 21 | A | 322031 | Gasket, Manifold | 1 |
| 22 | B | 300871 | Kit, Fuel Tank / Cap (Blk) | 1 |
| 23 | A | 300869 | . Filter, Fuel | 1 |
| 24 | A | 225162 | . Hose, Fuel | 1 |
| 25 | A | 225163 | . Hose, Fuel Return | 1 |
| 26 | A | 300700 | . Kit, Fuel Cap/Decal | 1 |
| 27 | B | 211242 | .. Decal, (OPEN SLOWLY) | 1 |
| 28 | C | 322250 | .. Decal, Fuel Cap | 1 |
| 29 | A | 322105 | Isolator, Fuel Tank | 4 |
| 30 | A | 300827 | Kit, Flywheel | 1 |
| 31 | A | 301019 | . Kit, Pawls | 1 |
| 32 | A | 111090 | .. Screw, Starter Pawl 12-24 L.H. | 2 |
| 33 | A | 322320 | .. Pawl, Starter | 2 |
| 34 | A | 93469 | .. Washer, Starter Pawl | 2 |
| 35 | A | 223339 | .. Spring, Starter Pawl | 2 |
| 36 | B | 322047 | . Nut, Hex | 1 |
| 37 | A | 111085 | ① . Nut | 1 |
| 38 | C | 301114 | Kit, Clutch Spacer | 1 |
| 39 | A | 322844 | . Washer, Shaft | 1 |
| 40 | B | 322847 | . Nut, Hex | 1 |

| ITEM NO. | STK. CODE | PART NUMBER | DESCRIPTION | UNITS PER ASY. |
|----------|-----------|-------------|------------------------------------|----------------|
| 41 | A | 102164 | Key, Flywheel | 1 |
| 42 | A | 111053 | Screw, 10-24 x .88 THD Form | 2 |
| 43 | B | 300321 | Terminal Tab | 1 |
| 44 | A | 219848-01 | Ignition Assembly | 1 |
| 45 | A | 223884 | . Kit, Spark Plug Wire | 1 |
| 46 | A | 102556 | .. Connector, Spark | 1 |
| 47 | A | 95266 | .. Boot, Spark Plug | 1 |
| 48 | A | 215533-01 | ① .. Grommet, H/T Lead | 1 |
| 49 | A | 110995 | ① .. Grommet, S/Plug Wire | 1 |
| 50 | A | 111054 | Screw, 10-24 x .625 | 3 |
| 51 | B | 224042 | Shroud, Engine Machined | 1 |
| 52 | B | 300766 | Crankcase / Shatt Assembly CD | 1 |
| | | | .. Crankshaft Assembly | 1 |
| | | | .. Crankcase, Machined | 1 |
| | | | .. Bearing 6202 | 1 |
| | | | .. Bearing 6202RS | 1 |
| | | | .. Seal | 1 |
| | | | .. Spacer | 1 |
| | | | .. O Ring | 1 |
| 53 | A | 224009 | Connecting Rod Assembly | 1 |
| 54 | A | 91117 | . Bearing | 2 |
| 55 | A | 300661 | Kit, Piston, 28cc Aluminum | 1 |
| 56 | B | 300482 | . Piston Pin, C'shaft (10mm dia) | 1 |
| 57 | A | 215876 | . Ring, Retaining | 1 |
| 58 | A | 224224 | . Ring, Piston 35mm | 1 |
| 59 | A | 111065 | Screw, 10-24 x .688 Tri Rnd | .4 |
| 60 | A | 322030 | Shield, Muffler | 1 |
| 61 | A | 300452 | Kit, Cylinder 28cc Chrome | 1 |
| 62 | A | 224022 | . Gasket, Cylinder | 1 |
| 63 | B | 224235 | Cover, Cylinder/Muffler (Blk) | 1 |
| 64 | B | 322480 | Label, Start Instructions (SLI/SW) | 1 |
| 65 | C | 322210 | Washer, Plastic | 1 |
| 66 | B | 111067 | Screw, 10-24 x .63 SL TORX TP | 2 |
| 67 | B | 111068 | Screw, 10-14 x 1.38 Taprite | 1 |
| 68 | A | 93469 | Washer | 1 |
| 69 | A | 62345 | Spark Plug / DJ8J | 1 |
| 70 | A | 224023 | Gasket, Crankcase | 1 |
| 71 | B | 224024 | Plug, Crankcase | 1 |
| 72 | A | 111065 | Screw, 10-24 x .688 Tri Rnd | 5 |
| 73 | | FIGURE 2 | STARTER HOUSING ASSEMBLY | |
| 74 | C | 46758-20 | Label, Air Box | 1 |

① Not Used

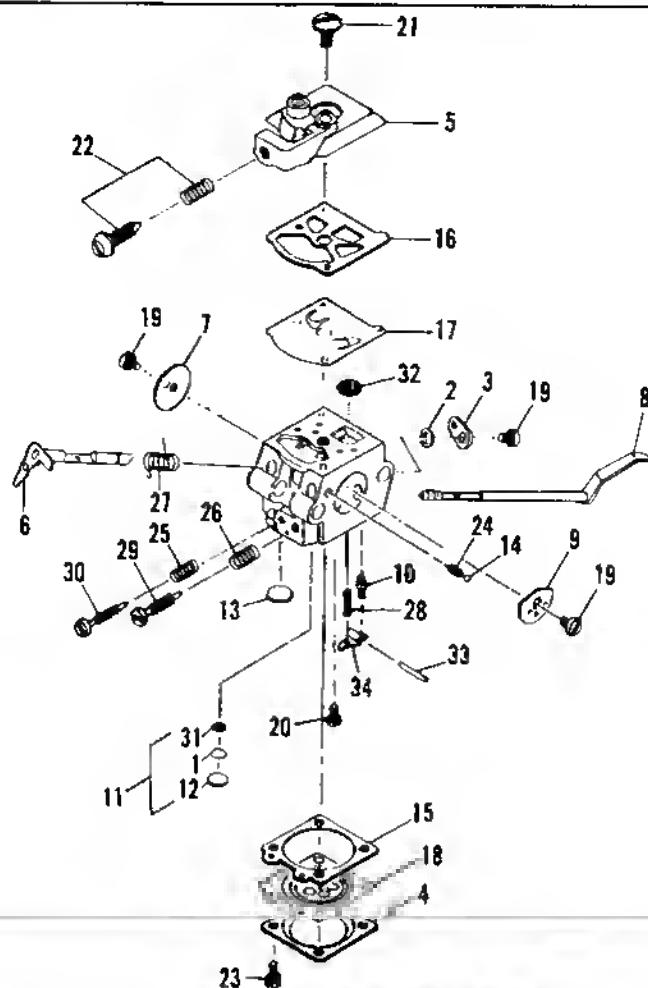
FIGURE 2**STARTER HOUSING ASSEMBLY**

| ITEM NO. | STK. CODE | PART NUMBER | DESCRIPTION | UNITS PER ASY. |
|----------|-----------|-------------|-------------------------------|----------------|
| 1 | A | 301133 | Wire Assembly, Switch | 1 |
| 2 | B | 300064 | Cover Assembly, Switch | 1 |
| 3 | B | 111069 | Screw, 8-16 x .375 Plastite | 1 |
| 4 | B | 105497 | Washer, Flat (.180 ID max) | 1 |
| 5 | B | 224246 | Contact, Switch | 1 |
| 6 | B | 224245 | Button, Stop Switch | 1 |
| 7 | B | 322081 | Label, ON/OFF Switch | 1 |
| 8 | B | 224234 | Trigger Housing Assembly 22mm | 1 |
| 9 | A | 111061 | Screw, 6-19 x .62 FL HD Plast | 2 |
| 10 | C | 323696 | Housing, Clutch | 1 |
| 11 | A | 300361 | Trigger, Throttle | 1 |
| 12 | A | 300372 | Throttle Cable Assembly | 1 |
| 13 | A | 111074 | Nut, Speed .188 ID | 1 |
| 14 | A | 322234 | Sleeve, Protecting | 1 |
| 15 | B | 322140 | Grip | 1 |
| 16 | A | 224919 | Screw, 10-14 x 1.0 PN HD | 4 |

| ITEM NO. | STK. CODE | PART NUMBER | DESCRIPTION | UNITS PER ASY. |
|----------|-----------|-------------|------------------------------|----------------|
| 17 | A | 111070 | Screw, 12-11 x .5 PN HD TORX | 1 |
| 18 | B | 302106 | Drum Assembly, Clutch | 1 |
| 19 | A | 300459 | Kit, Clutch | 1 |
| 20 | A | 111054 | Screw, 10-24 x .625 | 4 |
| 21 | C | 301927 | Starter Assembly | 1 |
| 22 | C | 302122 | Housing, Starter/Rope Guide | 1 |
| 23 | A | 301134 | Wire Assembly | 1 |
| 24 | A | 300475 | Package, Spring Assembly | 1 |
| 25 | A | 300872 | Drum/Rope Assembly | 1 |
| 26 | A | 222869 | Rope, Starter (46") | 1 |
| 27 | B | 218941 | Washer, Nylon | 1 |
| 28 | A | 216792 | Handle, Starter | 1 |
| 29 | A | 224927 | Plate, Baffle | 1 |
| 30 | A | 215533-01 | Grommet, H/T Lead | 1 |
| 31 | A | 223357 | Screw, 8-16 Plastite | 3 |
| 32 | B | 300415 | Rope, Bulk | 1 |

FIGURE 3

CARBURETOR ASSEMBLY



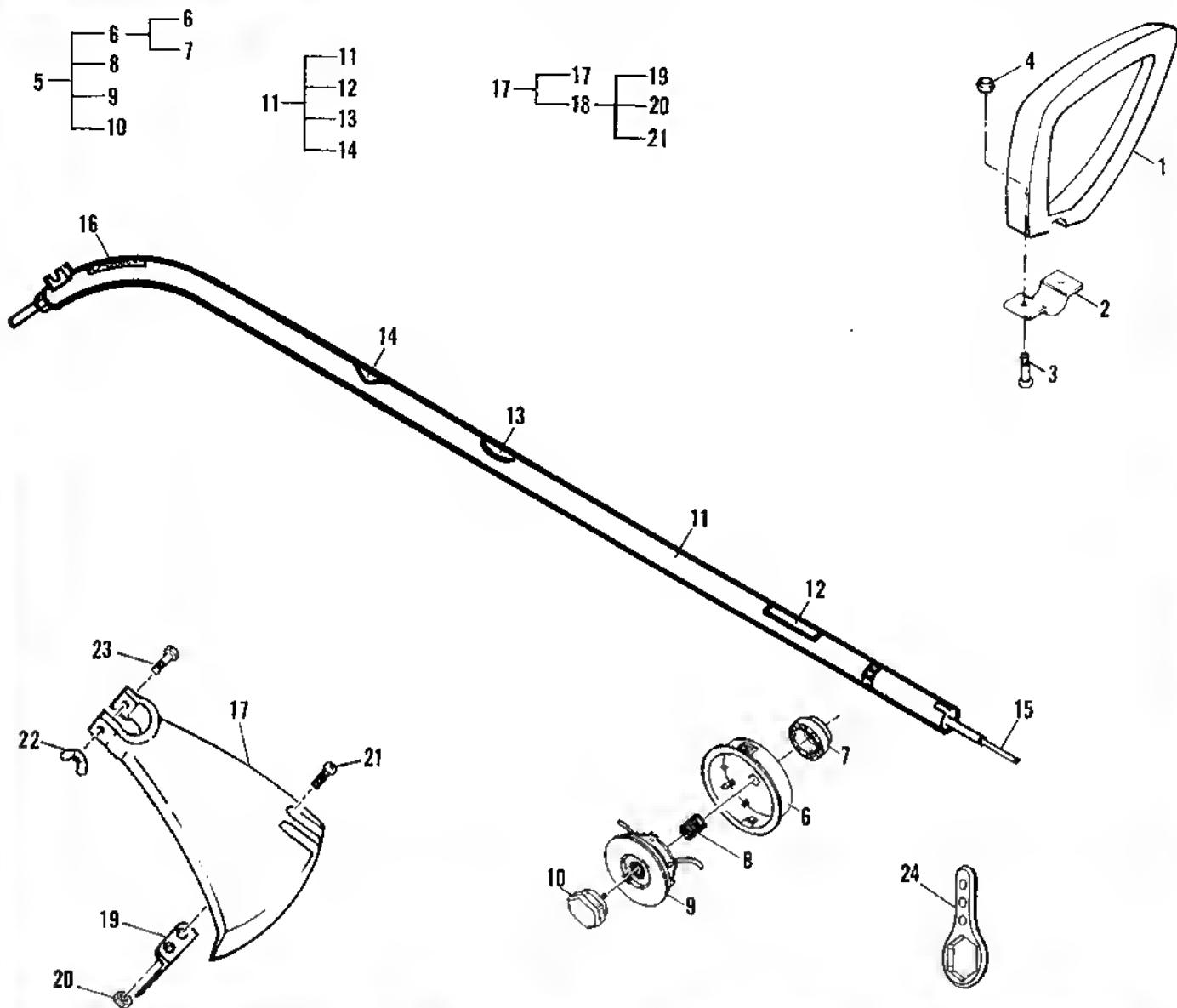
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| ITEM NO. | STK. CODE | PART NUMBER | DESCRIPTION | UNITS PER ASY. | ITEM NO. | STK. CODE | PART NUMBER | DESCRIPTION | UNITS PER ASY. |
|-------------|--------------|----------------|------------------------------------|-------------------|-------------|--------------|----------------|---------------------------|-------------------|
| A | | 224033-02 | Carburetor w/Choke, Walbro WT-231A | | 20 | ① | | Screw, Metering Lever Pin | 1 |
| 1 | ①④ | | Ring, Screen Retainer | 1 | 21 | | | Screw, Pump Cover | 1 |
| 2 | | | Ring, Shaft Retainer | 1 | 22 | | | Screw, Idle Adjust Kit | 1 |
| 3 | | | Lever, Throttle | 1 | 23 | ① | | Screw, Metering Cover | 4 |
| 4 | | | Cover, Metering Lever | 1 | 24 | ③ | | Spring, Choke Friction | 1 |
| 5 | B | 300072 | Cover, Fuel Pump | 1 | 25 | ⑦ | | Spring, Idle Needle | 1 |
| 6 | | | Shaft Assembly, Throttle | 1 | 26 | ① | | Spring, High Speed Needle | 1 |
| 7 | | | Valve, Throttle | 1 | 27 | ① | | Spring, Throttle Return | 1 |
| 8 | ③ | | Shaft Assembly, Choke | 1 | 28 | ③ | | Spring, Metering Lever | 1 |
| 9 | ③ | | Valve, Choke | 1 | 29 | ① | | Needle, High Speed | 1 |
| 10 | ① | | Valve, Inlet Needle | 1 | 30 | ① | | Needle, Idle | 1 |
| 11 | | | Seat Assembly, Check Valve | 1 | 31 | ① | | Screen, Check Valve | 1 |
| 12 | ① | | Plug, Cup 5mm | 1 | 32 | ① | | Screen, Fuel Inlet | 1 |
| 13 | ① | | Plug, Welch 5/16 | 1 | 33 | ① | | Pin, Metering Lever | 1 |
| 14 | ③ | | Ball, Choke Friction | 1 | 34 | ① | | Lever, metering | 1 |
| 15 | ①② | | Gasket, Metering Diaphragm | 1 | | | | | |
| 16 | ①② | | Gasket, Fuel Pump | 1 | ① | A | 300457 | Kit, Carburetor Repair | |
| 17 | ①② | | Diaphragm, Fuel Pump | 1 | ② | A | 224460 | Kit, Gasket/Diaphragm | |
| 18 | ①② | | Diaphragm Assembly, Metering | 1 | ③ | A | 322363 | Kit, Choke Lever | |
| 19 | ①③ | | Screw, Valve | 3 | | | | | |

NOTE: Items are shown for identification and disassembly sequence purposes only. Components are not available separately unless a part number is listed before the part description.

CARBURETOR METERING LEVER ADJUSTMENT AND SETTINGS

CARBURETOR INLET POP OFF - 16-29 PSI
INLET - FLUSH WITH METERING CHAMBER FLOOR

FIGURE 4**SHAFT/HANDLE /CUTTER ASSEMBLY**

| ITEM NO. | STK. CODE | PART NUMBER | DESCRIPTION | UNITS PER ASY. |
|-------------|--------------|----------------|--------------------------------|-------------------|
| 1 | A | 217444 | Handle, Delta | 1 |
| 2 | A | 217442 | Clamp, Handle | 1 |
| 3 | A | 120041 | Screw, M5 x .8 x 22 Hex | 2 |
| 4 | A | 217159 | Nut, Hex M5 | 2 |
| 5 | A | 300651 | Kit, Stringhead -Sml- | 1 |
| 6 | A | 322025 | . Housing/Eyelet Asy. w/Collar | 1 |
| 7 | A | 224396 | .. Collar | 1 |
| 8 | A | 322626 | . Spring | 1 |
| 9 | A | 300688 | . Kit, Line on Spool(M-Sm) | 1 |
| 10 | A | 300736 | . Kit, Knob Asy. (Right) | 1 |

| ITEM NO. | STK. CODE | PART NUMBER | DESCRIPTION | UNITS PER ASY. |
|-------------|--------------|----------------|------------------------------|-------------------|
| 11 | A | 300429 | Housing Assembly, Outer | 1 |
| 12 | B | 21B295 | . Decal, Warning | 1 |
| 13 | C | 223407 | . Decal, Eye/Ear Cover | 1 |
| 14 | C | 211214 | . Decal, Warning(15m) | 1 |
| 15 | C | 301023 | Drive Assembly w/Clip | 1 |
| 16 | B | 322099 | Label, Debris Shield Warning | 1 |
| 17 | A | 224062 | Shield Assembly, Grass 17" | 1 |
| 18 | A | 300626 | . Kit, Knife | 1 |
| 19 | A | 224497-01 | . Cutter | 1 |
| 20 | A | 216682 | . Nut, Lock 10-24 Hex | 2 |
| 21 | A | 217935 | . Screw, TR 10-24 x .50 Torx | 2 |
| 22 | A | 216595 | Screw, M6 x 1.0 Hex | 1 |
| 23 | B | 111102 | Nut, Wing, M6 x 1.0 | 1 |
| 24 | T | 322344 | Wrench, Stringhead | 1 |

SPECIFICATIONS

| | |
|------------------------------------|---|
| ENGINE TYPE | Air-Cooled, Two Cycle, Single Chrome Cylinder |
| DISPLACEMENT | 28cc (1.6 ci) |
| MAXIMUM HORSEPOWER | 1.1 hp. |
| BORE & STROKE | 1.37 x 1.12 inches (35 mm x 28.6 mm) |
| NOLE RPM | 2,700 - 3,000 rpm, assembled |
| MAXIMUM RPM | 7,000 - 8,000 rpm, assembled |
| COMPRESSION (PSI) | After 10 pulls, throttle full open: 80 lbs. |
| IGNITION | Solid State |
| FLYWHEEL to IGNITION GAP | 0.010 to 0.015 Inches (0.254 to 0.381 mm) |
| SPARK PLUG GAP & TYPE | .025 inches (.63 mm)Champion DJ8J(ROJ8J-Canada) |
| FUEL TANK CAPACITY | 23.3 oz. (690 ml) |
| FUEL TYPE | Unleaded - Regular Grade |
| FUEL TO OIL RATIO | 40:1 |
| ORY WEIGHT | 13.6 Lbs. (6.2kg) |
| CARBURETOR | Diaphragm/Primer Type |
| STARTER CORD | Nylon, Type 3.5, Length 46 in. (117cm) |

SERVICE TOOLS

| PART NUMBER | DESCRIPTION |
|-------------|----------------------|
| 215432 | PRESSURE TEST TOOL |
| 217720 | TORX DRIVE SET |
| 222785 | T-25 TORX DRIVE 3.5" |
| 111124 | T-27 TORX DRIVE 3.5" |

TORQUE SPECIFICATIONS

| DESCRIPTION | P/N | FIG/ITEM | TORQUE VALUE (In.lbs.) | LOCTITE |
|---------------------------|--------|----------|------------------------|---------|
| CARBURETOR | 111058 | 1/12 | 25-30 | NO |
| INSULATOR TO CYLINDER | 11053 | 1/19 | 45-50 | 242 |
| FLYWHEEL NUT | 322847 | 1/35 | 140-145 | 242 |
| IGNITION ASSEMBLY | 11053 | 1/41 | 45-50 | 242 |
| SHROUD TO CRANKCASE | 11054 | 1/49 | 55-60 | 242 |
| CRANKCASE TO CYLINDER | 11065 | 1/58 | 55-60 | 242 |
| SPARK PLUG | 62345 | 1/68 | 110-120 | NO |
| CRANKCASE TO PLASTIC PLUG | 11065 | 1/71 | 35-40 | 242 |
| CLUTCH HOUSING | 224919 | 2/16 | 30-35 | NO |
| STARTER HOUSING | 111054 | 2/20 | 30-35 | NO |